

GUJARAT TECHNOLOGICAL UNIVERSITY
PHARM.D YEAR-1 EXAMINATION – WINTER - 2024

Subject Code: 818801**Date: 02-12-2024****Subject Name: Human Anatomy and Physiology****Time: 10:30 AM TO 1:30 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) Explain the composition of gastric juice and write the functions of the Stomach. | 06 |
| | (b) Write a note on oral contraceptive devices. | 04 |
| | (c) Write a note on spermatogenesis. | 04 |
| Q.2 | (a) Define the following terminologies: Hypertension, Myocardial infarction, Gout, resuscitation, Atherosclerosis, Congestive heart failure | 06 |
| | (b) Explain in detail the differences between the sympathetic and parasympathetic nervous system. | 04 |
| | (c) Enumerate the clotting factors and explain the mechanism of Blood coagulation. | 04 |
| Q.3 | (a) Discuss in detail the composition and functions of blood. Add a note on disorders of the blood. | 06 |
| | (b) Explain in detail the hormones and functions of the anterior pituitary gland. | 04 |
| | (c) Draw the labeled diagram of the skin and explain the functions of the skin. | 04 |
| Q.4 | (a) Draw the labeled diagram of the Ear and explain the physiology of hearing. | 06 |
| | (b) Write a note on the functional areas of the cerebrum. | 04 |
| | (c) Classify Joints and explain the different types of joints with suitable examples. | 04 |
| Q.5 | (a) Draw a neat diagram of the heart and give the detail on ECG. | 06 |
| | (b) Write a note on the mechanism of respiration. | 04 |
| | (c) Explain the structure and functions of the pancreas. | 04 |
| Q. 6 | (a) Draw the labeled diagram of the urinary system. Explain the mechanism of urine formation. | 06 |
| | (b) Explain the cranial nerves and their function. | 04 |
| | (c) Write a note on a reflex action. | 04 |
| Q.7 | (a) Classify the various types of tissues with suitable examples and give the detail on epithelial tissue. | 06 |
| | (b) Explain the structure of the cell. | 04 |
| | (c) Explain the structure and functions of the spleen. | 04 |
